

L Number	Hits	Search Text	DB	Time stamp
1	1	3899571.pn.	USPAT; US-PGPUB	2003/10/30 15:49
-	531	carbonate and Bayer and lime and (oxalate or sulphate or sulfate)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/28 17:49
-	371	(carbonate and Bayer and lime and (oxalate or sulphate or sulfate)) and (alumina or aluminate or aluminum)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/29 16:57
-	7	3120996.pn. 3341286.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/29 16:13
-	45	(carbonate and Bayer and lime and (oxalate or sulphate or sulfate)) and (alumina or aluminate or aluminum)	USOCR	2003/10/29 16:43
-	3	"3372985"	USOCR	2003/10/29 16:43
-	166	(carbonate same lime) and Bayer and (alumina or aluminate or aluminum)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/29 18:07
-	3	("2806766" "2981600" "4038039").PN.	USPAT	2003/10/29 17:40
-	6	"3134639"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/29 18:06
-	91	(carbonate same lime) and Bayer and (alumina or aluminate or aluminum)	USOCR	2003/10/29 18:07

DERWENT-ACC-NO: 1981-96436D

DERWENT-WEEK: 198152

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TITLE: Recovery of soda and sulphate from alumina prodn. waste
- includes causticisation of carbonate-sulphate mixt.
with lime and sepn. of calcium carbonate

INVENTOR: OVSYANNIKO, V I; STYAZHKIN, A K ; TOKAREV, G V

PRIORITY-DATA: 1979SU-2762932 (May 7, 1979)

PATENT-FAMILY:

PUB-NO	PAGES	PUB-DATE	
LANGUAGE		MAIN-IPC	
SU 814866 B		March 25, 1981	N/A
003	N/A		

INT-CL (IPC): C01D005/00, C01F007/06

ABSTRACTED-PUB-NO: SU 814866B

BASIC-ABSTRACT:

Sodium carbonate and sulphate mixt. obtd. as by-prod. in Bayer's process of alumina prodn. is processed to recover sodium sulphate and soda by dissolving the mixt. in water, followed by causticisation with lime, sepn. of calcium carbonate by filtration and sepn. of sodium sulphate from the filtrate by evapn. and salting out.

The purity of the final prod. is increased and the loss of soda is reduced if Na₂SO₄ is sepd. until molar ratio of carbonate to sulphate in soln. is 0.1-0.5.

The resulting soln. is then concd. to 270-320 g/l Na₂O (as caustic soda) after sepn. of the pptd. sodium sulphate. Bul.11/23.3.81. (3pp)

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Basic Abstract Text - ABTX (1):

Sodium carbonate and sulphate mixt. obtd. as by-prod. in Bayer's process of alumina prodn. is processed to recover sodium sulphate and soda by dissolving the mixt. in water, followed by causticisation with lime, sepn. of calcium carbonate by filtration and sepn. of sodium sulphate from the filtrate by evapn. and salting out.

Basic Abstract Text - ABTX (2):

The purity of the final prod. is increased and the loss of soda is reduced if Na₂SO₄ is sepd. until molar ratio of carbonate to sulphate in soln. is 0.1-0.5. The resulting soln. is then concd. to 270-320 g/l Na₂O (as caustic soda) after sepn. of the pptd. sodium sulphate. Bul.11/23.3.81. (3pp)

Derwent Accession Number - NRAN (1):

1981-96436D

Title - TIX (1):

Recovery of soda and sulphate from alumina prodn. waste - includes causticisation of carbonate-sulphate mixt. with lime and sepn. of calcium carbonate

Standard Title Terms - TTX (1):

RECOVER SODA SULPHATE ALUMINA PRODUCE WASTE CAUSTIC CARBONATE SULPHATE
MIXTURE LIME SEPARATE CALCIUM CARBONATE